

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**  
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.  
32792/12321

In Re Application Of:

GLENN NELSON

OCT 08 2003

Serial No.  
09/987,968

Filing Date  
November 16, 2001

Examiner  
J. Smith II

Group Art Unit  
2878

Title:

ARTICLE IRRADIATION SYSTEM SHIELDING

Address to:

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**37 CFR 1.97(b)**

1. ☐ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

**37 CFR 1.97(c)**

2. ☒ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

☐ the statement specified in 37 CFR 1.97(e);

OR

☒ the fee set forth in 37 CFR 1.17(p).

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(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

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Dated: 10-06-03

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SERIAL NO.

09/987,968

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

APPLICANT:

Glenn Nelson

FILING DATE

16 November 2001

GROUP

2878

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	aa	924,248	06/08/1909	Lazear			
	ab	1,809,078	06/09/1931	Smith			
	ac	2,095,502	10/12/1937	Johnston			
	ad	2,602,751	07/08/1952	Robinson			
	ae	2,989,735	06/20/1961	Gumpertz			
	af	2,741,704	04/10/1956	Trump et al.			
	ag	2,887,583	05/19/1959	Emanuelson			
	ah	2,897,365	07/28/1969	Dewey II et al.	250	49.5	
	ai	3,087,598	04/30/1963	Clore	198	38	
	aj	3,224,562	12/21/1965	Bailey et al.	198	131	
	ak	3,261,140	07/19/1966	Long et al.	53	22	
	al	3,452,195	06/24/1969	Brunner	250	52	
	am	3,564,241	02/16/1971	Ludwig	250	52	
	an	3,676,675	07/11/1972	Ransohoff et al.	250	52	
	ao	3,833,814	09/03/1974	Nablo	250	492	
	ap	3,901,807	08/26/1975	Trump	210	198	
	aq	3,915,284	10/28/1975	Knockeart et al.	198	34	
	ar	4,020,354	04/26/1977	Fauss et al.	250	492 B	
	as	4,075,496	02/21/1978	Uehara	250	492 B	
	at	4,166,673	09/04/1979	Dona	350	97	
	au	4,295,048	10/13/1981	Cleland et al.			
	av	4,481,654	11/06/1984	Daniels et al.	378	110	
	aw	4,514,963	05/07/1985	Bruno	53	493	
	ax	4,561,358	12/31/85	Burgess	104	89	
	ay	4,653,630	03/31/1987	Bravin	198	460	
	az	4,690,751	09/01/1987	Umiker	209	3.3	
	ba	4,839,485	06/13/1989	Koch et al.	219	10.55	
	bb	4,852,138	07/25/1989	Bergeret et al.	378	69	
	bc	4,978,501	12/18/1990	Diprose et al.	422	22	
	bd	5,038,911	08/13/1991	Doane et al.	198	357	

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DATE CONSIDERED

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## U.S. PATENT DOCUMENTS

EXAMINER INITIALS		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	be	5,096,553	03/17/1992	Ross et al.	204	157.15	
	bf	5,137,139	08/11/1992	Ruscello	198	460	
	bg	5,341,916	08/30/1994	Doane et al.	198	460	
	bh	5,341,915	09/30/1994	Cordia et al.	198	460	
	bi	5,396,074	03/07/1995	Peck et al.	250	453.11	
	bj	5,400,382	03/21/1995	Welt et al.	378	69	
	bk	6,215,847	04/10/2001	Perrins et al.	378	69	
	bl	6,468,471	10/22/2002	Loda et al.	422	22	
	bm	6,492,645	12/10/2002	Allen et al.	250	453.11	
	bn	2,989,735	06/20/1961	Gumpertz	340	174.1	
	bo	6,583,423	06/24/03	Rose	250	453.11	

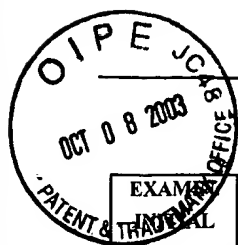
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

ca	L.V. Spencer, Energy Dissipation by Fast Electrons, 1959, National Bureau of Standards Monograph 1, US Dept. of Commerce, National Bureau of Standards, pp 1-70
cb	ASTM Designation: L E1608-00, Standard Practice for Dosimetry in an X-Ray (Bremsstrahlung) Facility for Radiation Processing. Annual Book of ASTM Standards, American Society for Testing and Materials, Conshohocken, PA 19428
cc	H.W. Koch et al., Electron Accelerators for Food Processing, 1965, Radiation Preservation of Foods, National Academy of Science-National Research Council Publication 1273, pp 149-173
cd	K.H. Morganstern, S-Ray Radiation Sources, 1964, Presented at the American Nuclear Society Seminar on the Radiation Processing Industry, Washington, DC
ce	J.P. Farrell, The Bremsstrahlung Radiation Field of a Scanned Monoenergetic Electron Beam, 1966, Presented at the International Nuclear Industries Fair, Nuclex 66, Basle, Switzerland
cf	K.H. Morganstern, Appraisal of the Advantages and Disadvantages of Gamma, Electron and X-Ray Radiation Sterilization, 1974, Presented at the Symposium on Ionizing Radiation for Sterilization of Medical Products and Biological Tissues, Bombay, India, IAEA-SM 192/8, International Atomic Energy Agency, Vienna, Austria
cg	J. Paul Farrell, High -Power Bremsstrahlung Sources for Radiation Sterilization, 1979, Radiation Physics and Chemistry, Vol. 14, Nos. 3-6, - 377-387
ch	J. Paul Farrell, Examination of Product Throughout Obtained From High Power Bremsstrahlung Sources, 1981, IEEE Transaction of Nuclear Science, Vol. NS-28, No. 2, pp. 1786-1793
ci	Stephen M. Seltzer et al., Bremsstrahlung Beams from High-Power Electron Accelerators for use in Radiation Processing, 1983, IEEE Transactions of Nuclear Science, Vol. NS-30, No. 2, pp. 1629-1633
cj	J. Paul Farrell et al., Bremsstrahlung Generators for Radiation Processing, 1983, Radiation Physics and Chemistry, Vol. 22, No. 3-5, pp. 469-475
ck	Michael S. DeWilton, High Power, High Reliability Electron Accelerators for Industrial Processing, 1984, Radiation Physics and Chemistry, Vol. 25, No. 25, Nos. 4-6, pp. 643-652
cl	C.C. Thompson and M.R. Cleland, High-Power Dynamitron Accelerators for X-Ray Processing, 1989, Nuclear Instrument and Methods in Physics Research, B40/41, pp. 1137-1141
cm	M.R. Cleland et al., Advances in X-Ray Processing Technology, 1990, Radiation Physics and Chemistry, Vol. 35, Nos. 4-6, pp. 632-637
cn	M.R. Cleland et al., Evaluation of new X-Ray Processing Facility, 1991, Nuclear Instruments and Methods in Physics Research, B56/57, pp. 1242-1245
co	M.R. Cleland, X-Ray Processing A Review of the Status and Prospects, 1993, Radiation Physics and Chemistry, Vol. 42, Nos. 1-3, pp. 499-503
cp	M.R. Cleland et al., Comparisons of X-Ray and Gamma-Ray Sources for Industrial Irradiation Process, 1987, Nuclear Instruments and Methods in Physics Research B24/25, pp. 967-972

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DATE CONSIDERED

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

cq	J. Meissner et al., X-Ray Treatment at MeV and Above, 2000, Radiation Physics and Chemistry, Vol. 57, Nos. 3-6, pp. 6547-651
cr	Y. Aikawa, A New Facility for X-Ray Irradiation and its Application, 2000, Radiation Physics and Chemistry, Vol. 57, Nos. 3-6, pp. 609-612
cs	T. Watanabe, Best Use of High-Voltage, High-Powered Electron Beams: L A New Approach to Contract Irradiation Services, 2000, Radiation Physics and Chemistry, Vol. 57, Nos. 3-6, pp. 635-639
ct	C. Artandi et al., Electron-Beam Sterilization of Surgical Sutures, March 1959, Nucleonics, Vol. 17, Nos. 3, pp. 86-90
cu	A. Brynjolfsson, Electron Irradiation Facility at the Danish Atomic Energy Commission Research Establishment, Riso, 1962, Ingenieren, Vol. 6, No. 3, pp. 101-104
cv	A. Brynjolfsson, Three-Dimensional Dose Distribution in Samples Irradiated by Electron Beams, 1963, Proceedings of the International Conference on Radiation Research, Held at the US Army Natick Laboratories, Published by the U.S. Dept. of Commerce, Office of Technical Services, pp. 116-129
cw	A. Brynjolfsson et al., Industrial Sterilization at the Electron Linear, 1963, Accelerator Facility at Risoe, Industrial Use of Large Radiation Sources STI/PUB/75, IAEA, Vienna
cx	E.M. Fielden et al., Dosimetry in Accelerator Research and Processing, 1970, Manual on Radiation Dosimetry, Chapter X, pp. 261-309
cy	P. Icre, Electronic Radiation Sterilization: Description and Operation of an Industrial Sterilization Unit, 1972, Industries Atomiques & Spatiales, Vol. 5
cz	V.B. Osipov et al., Commercial Units for Radiation Sterilizing Medical Supplies, 1974, Multiscience Publication Limited, Montreal, Quebec, Canada, pp. 136-144
cca	C.W. Rees et al., Electron Irradiation in the Sterilization of Meat, 1976, First International Congress on Engineering and Food, pp. 3-25
ccb	J.H. Bly, Electron Beam Sterilization Technology, 1979, Radiation Physics and Chemistry, Vol. 143, nos. 3-6, pp. 403-414
ccd	T.G. Henry, Electron Beam A Cast History, 1990, Radiation Physics and Chemistry, Vol. 35, Nos. 4-6, pp. 528-533
cce	M.R. Cleland et al., Sterilization with Accelerated Electrons, 1993, Sterilization Technology, Chapter 9, pp. 218-253
ccf	T. Sadat, Dual Linear Accelerator System for use in Sterilization of Medical Disposable Supplies, 1991, Nuclear Instruments and Methods in Physics Research, Vols. B56/57, Part II, pages 1226-1228
ccg	ASTM E1321-91, Standard Practice for Dosimetry in Electron and Bremsstrahlung Irradiation Facilities for Food Processing, 1991
cch	AAMI/American National Standard: Guideline for Electron Beam Radiation Sterilization of Medical Devices, 1991
cci	T. Sadat, Dual Linear Accelerator System for use in Sterilization of Medical Disposable Supplies, 1991, Nuclear Instruments and Methods in Physics Research, Vols. B56/57, Part II, pages 1226-1228
ccj	ASTM E1321-91, Standard Practice for Dosimetry in Electron and Bremsstrahlung Irradiation Facilities for Food Processing, 1991
cck	AAMI/American National Standard: Guideline for Electron Beam Radiation Sterilization of Medical Devices, 1991
ccl	Encyclopedia of Pharmaceutical Technology, 1992
ccm	CH2M Hill, Conceptual Design Report-Florida Agricultural Commodities Irradiator Demonstration Project - September, 1987
ccn	CH2M Hill, Options Analysis-Machine Sources for Food Irradiation, January, 1988
cco	Drawing of the Florida Agricultural Commodities Irradiation Facility, Installation Upper Level Conveyor System Layout
ccp	Drawing of the Florida Agricultural Commodities Irradiation Facility, Installation Upper Level Conveyor System Layout
ccq	Map of Florida Agricultural Commodities Irradiator, Lower Level
ccr	Brochure - The Florida Linear Accelerator
ccs	Irradiation of Anastrepha Suspense (Diptera: Tephritidae): New Irradiation Facility, Florida Entomologist, 1993, Vol. 76, No. 2
cct	R.A. Harrod, AECL Gamma Sterilization Facilities, 1977, Radiation Physics and Chemistry, Vol. 9, pp. 91-117

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